

What is Claimed is:

1. A wireless content switch for transmitting data packets, said wireless content switch comprising:

an upstream port for receiving one or more data packets;

a downstream port for transmitting the one or more data packets to a mobile station; and

memory for storing the one or more data packets responsive to receiving the data packets and for retrieving the one or more data packets for retransmission.

2. The wireless content switch of claim 1, further comprising:

a processing unit for executing a plurality of instructions; and

wherein the memory stores the plurality of executable instructions comprising:

determining whether one or more of the data packets are lost in a wireless network.

3. The wireless content switch of claim 2, wherein the executable instructions for determining whether one or

more of the data packets are lost in the wireless network further comprises:

receiving a plurality of acknowledgments from the mobile station, wherein each acknowledgment comprises a particular data packet number; and

examining the acknowledgments to determine whether two or more of the acknowledgments comprise a same data packet number.

4. The wireless content switch of claim 3, wherein the plurality of instructions for determining whether one or more data packets are lost in the wireless network further comprises:

retransmitting at least one of the data packets, wherein at least two or more acknowledgments comprise a same data packet number.

5. The wireless content switch of claim 1, wherein the plurality of executable instructions further comprises:

determining whether one or more data packets are lost in a wireline network.

6. The wireless content switch of claim 5, wherein the instructions for determining whether one or more data packets are lost in the wireline network further comprises:

examining a packet number associated with one or
5 more of the data packets.

7. The wireless content switch of claim 6, wherein the instructions for determining whether one or more packets are lost in the wireline network further comprises:

10 comparing the packet number associated with the one or more of the data packets with a second packet number; and

15 transmitting an acknowledgment to a content server wherein the packet number associated with the one or more data packets exceeds the second packet number by a predetermined threshold.

8. In a packet data network comprising a wired network, a wireless network, a method for transmitting data packets to a mobile station, said method comprising:

receiving one or more data packets from the wired
5 network;

storing the one or more data packets until
determination that the one or more data packets are
received at a mobile station; and

transmitting the one or more data packets over the
10 wireless data network to the mobile station.

9. The method of claim 8, further comprising:

determining whether one or more of the data packets
are lost in the wireless network.

10. The method of claim 9, wherein determining
whether one or more of the data packets are lost in the
wireless network further comprises:

receiving a plurality of acknowledgments from the
20 mobile station, wherein each acknowledgment comprises a
particular data packet number; and

examining the acknowledgments to determine whether two or more of the acknowledgments comprise a same data packet number.

5 11. The method of claim 10, wherein determining whether one or more data packets are lost in the wireless network further comprises:

 retransmitting at least one of the data packets, wherein at least two or more acknowledgments comprise a same data packet number.

10 12. The method of claim 8, further comprising:
 determining whether one or more data packets are lost in a wireline network.

15 13. The method of claim 12, wherein determining whether one or more data packets are lost in the wireline network further comprises:

 examining a packet number associated with one or
20 more of the data packets.

14. The method of claim 13 wherein determining whether one or more packets are lost in the wireline network further comprises:

comparing the packet number associated with the one
5 or more of the data packets with a second packet number;
and

transmitting an acknowledgment to a content server wherein the packet number associated with the one or more data packets exceeds the second packet number by a predetermined threshold.

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15. An article of manufacture for transmitting data packets to a mobile station in a packet data network comprising a wired network, a wireless network, and a wireless content switch connected therebetween, said
5 article of manufacture comprising computer readable medium storing a plurality of instructions comprising:

receiving one or more data packets from the wired network;

10 storing the one or more data packets until determination that the one or more data packets are received at a mobile station; and

15 transmitting the one or more data packets over the wireless data network to the mobile station.

16. The article of manufacture of claim 15, wherein the plurality of instructions further comprises:

determining whether one or more of the data packets are lost in the wireless network.

20 17. The article of manufacture of claim 16, wherein the plurality of instructions for determining whether one or more of the data packets are lost in the wireless network further comprises:

receiving a plurality of acknowledgments from the mobile station, wherein each acknowledgment comprises a particular data packet number; and

examining the acknowledgments to determine whether
5 two or more of the acknowledgments comprise a same data packet number.

18. The article of manufacture of claim 17, wherein the instructions for determining whether one or more data
10 packets are lost in the wireless network further comprises:

retransmitting at least one of the data packets, wherein at least two or more acknowledgments comprise a same data packet number.

15 19. The article of manufacture of claim 15, wherein the plurality of instructions further comprises:

determining whether one or more data packets are lost in a wireline network.

20 20. The article of manufacture of claim 19, wherein the instructions for determining whether one or more data packets are lost in the wireline network further comprises:

examining a packet number associated with one or more of the data packets.

21. The article of manufacture of claim 20 wherein the instructions for determining whether one or more packets are lost in the wireline network further comprises:

comparing the packet number associated with the one or more of the data packets with a second packet number; and

transmitting an acknowledgment to a content server wherein the packet number associated with the one or more data packets exceeds the second packet number by a predetermined threshold.